HIGH ACCURACY

measurement instruments

PRODUCT DATASHEET

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Product Data Sheet
December 2017
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Emerson™ Plantweb™ Insight

- Analytic and application package providing strategic interpretation and monitoring of plant assets
- Relevant-time actionable information and insights about abnormal situations, asset state, asset health, energy costs, emissions loss, etc.
- Seamless system integration, simple installation, and minimal configuration or set-up
- Pre-packaged analytics based on decades of process and industry experience
- Human centered design and user tested interface for consistent and intuitive navigation

EMERSON

Gain real-time insights into abnormal situations

- Suite of asset monitoring applications identifying abnormal situations and failures using process analytics
- Learn about issues before they impact the bottom line with alerting and failure identification
- The intuitive and easy-to-read views highlight high priority, actionable information

Lightweight, secure, and reliable software package allows seamless integration into current infrastructure

- Easily deployed via a virtual machine
- Access the interface anytime from a multitude of web browsers
- Human centered design considerations allow for quick and intuitive start up and configuration
- Integrate with existing wireless ecosystem to expand capabilities and leverage current investment

Monitor one asset or thousands with a fully scalable software package and numerous applications

- Applications are based on key assets such as steam traps, pumps, heat exchangers, safety showers, and many more
- Start small or monitor all your assets in one spot
- Integration with other business systems such as OSI Pi and data historians
- Deploy in small, large, or enterprise-wide operations

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User interface

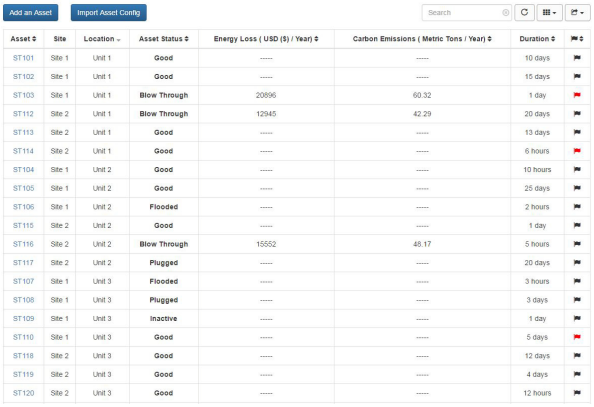
Every application in the Plantweb Insight suite has a similar look and feel for a consistent user experience. The main views can be broken into three layers.

Dashboard

The dashboard page is an umbrella overview of the asset class being monitored. This page will provide an aggregated view of the entire asset class and the most important insights. These insights will vary from application to application with examples including asset status, asset health, energy costs, emissions loss, critical alerts, etc. A brief trending of these key insights is also provided for historical tracking and trending.

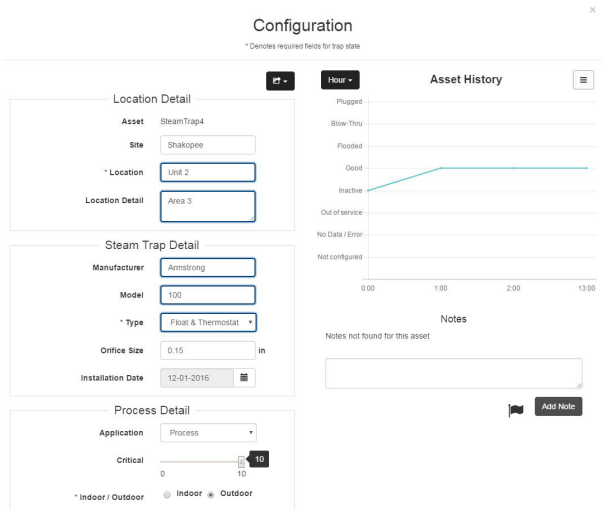
Asset summary

The asset summary page is a tabular view of all assets being monitored. This view provides a similar perspective as the dashboard but on an asset-by-asset basis. This page is fully sortable, searchable, and filterable for quick prioritization and identification. The asset summary page can also be exported via CSV or Excel® for reporting.

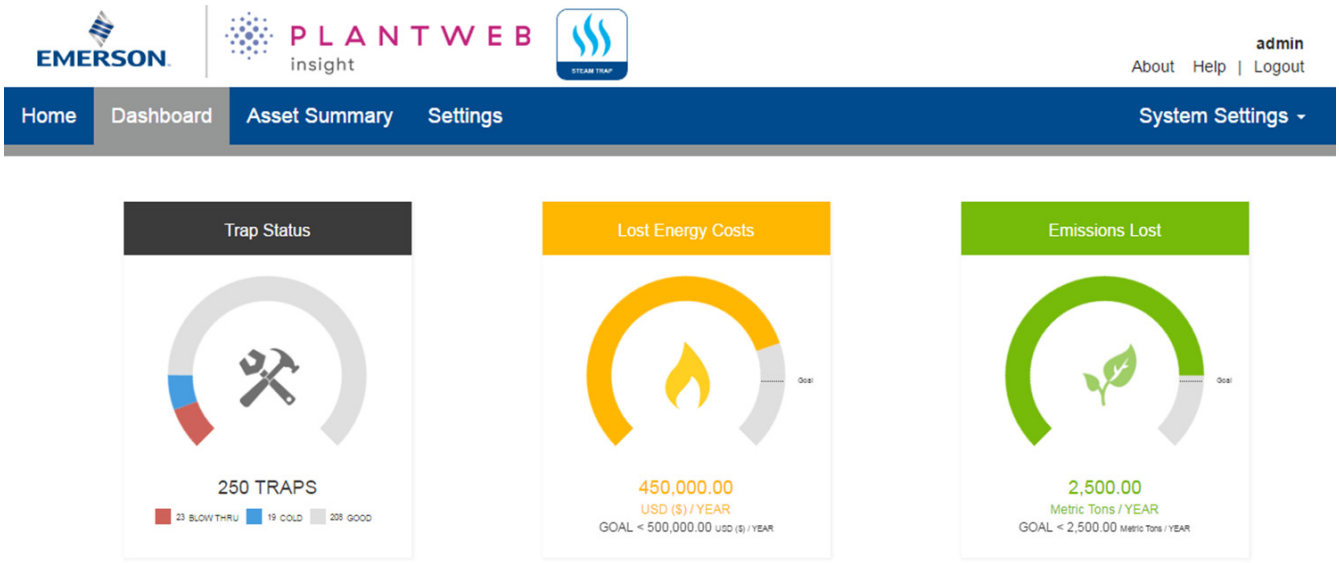


Asset details

The asset details page provides specific asset details. These details include location, process, application, asset, and device details for each individual asset. It also provides calculated insights such as relevant-time status, health, energy, emissions, etc. information and a brief asset history. A notes section allows users to add notes and flag assets for follow-up.



Steam trap insight



Features

- In-depth monitoring of steam traps
- Provides relevant time steam trap status including failure modes (blow through, plugged, flooded)
- Steam trap status algorithm based on thousands of real-customer data points and analytics
- Economic and environmental impact displayed in terms of excess energy costs and emissions loss
- Prioritize maintenance based on most problematic or highest impact failed traps

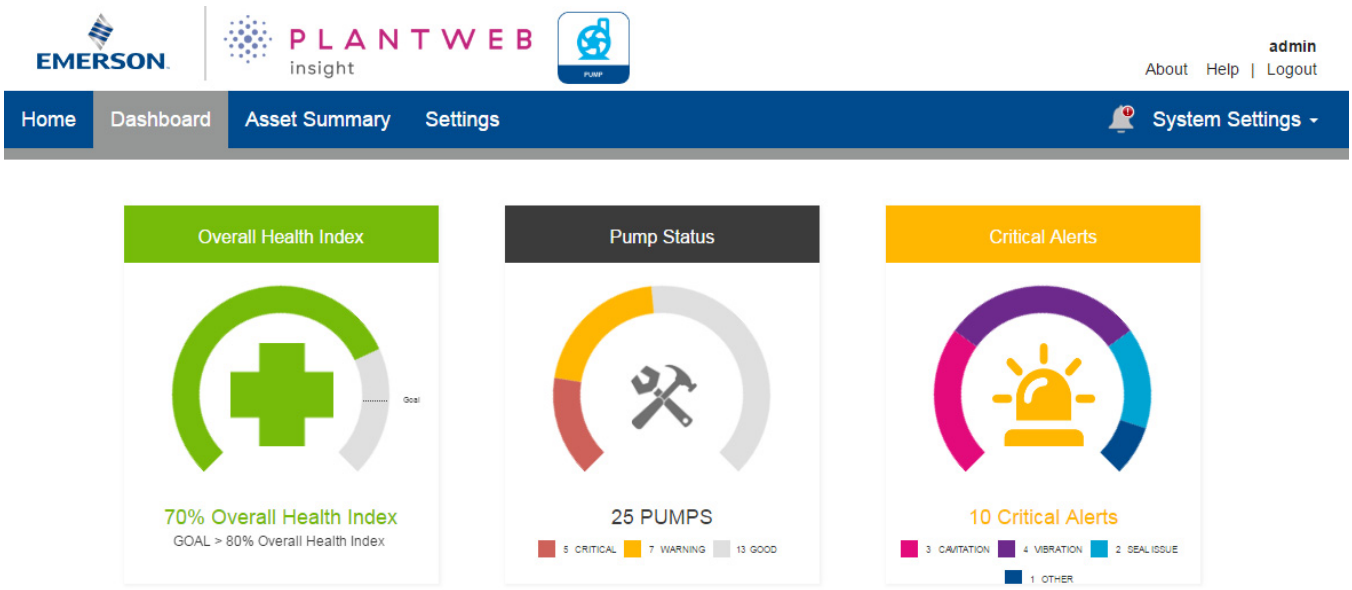
Calculated insights

- Steam trap status
  - Good
  - Blow through
  - Plugged
  - Flooded
  - Inactive
- Energy costs
- Emissions loss

Related products

- Emerson 1410/1420 Wireless Gateway
- Rosemount™ 708 Wireless Acoustic Transmitter

Pump insight

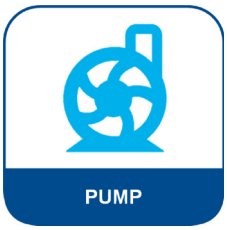


Features

- In-depth monitoring of fixed-speed pumps
- Provides relevant time pump status and alerts (high vibration, cavitation, pump head, etc.)
- Pre-built algorithms based on decades of process experience and industry vetted analytics
- Predictive diagnostics and alert weights allows prioritization of pump maintenance

Calculated insights

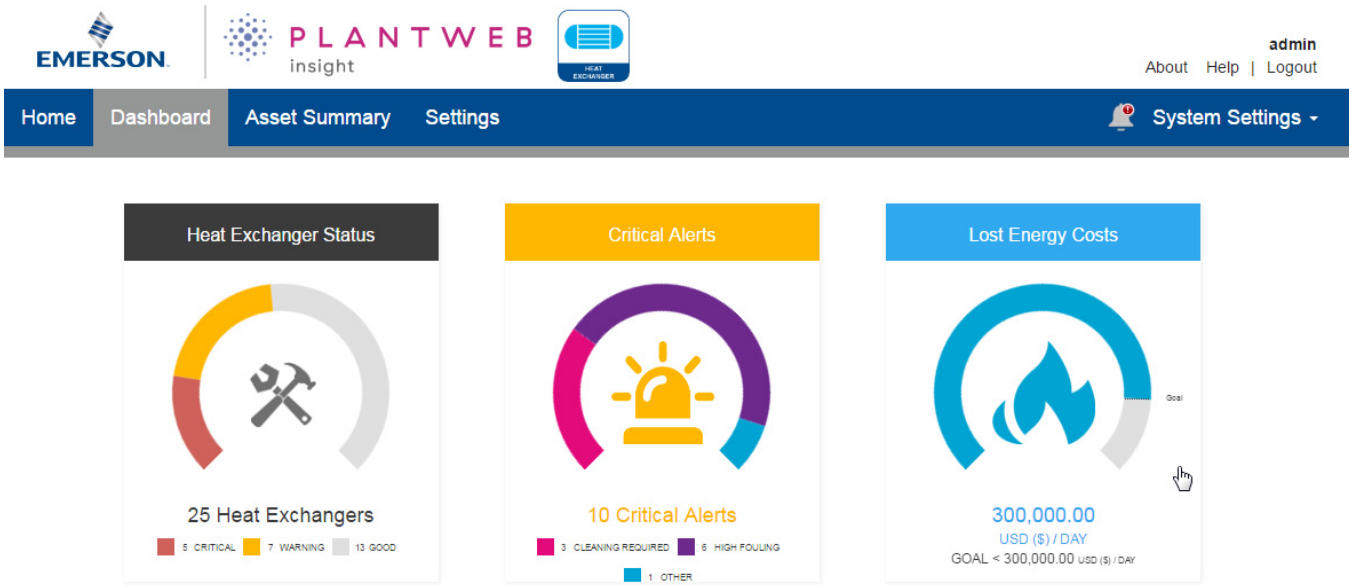
- Vibration monitoring
- Cavitation
- Pump pressure differential
- Process variable thresholds based on baseline capture
- Pump health index
- Abnormal situation awareness in the form of alerts



Related products

- Emerson 1410/1420 Wireless Gateway
- AMS 9420 Wireless Vibration Transmitters
- Rosemount 3051S Wireless Pressure Transmitters
- Rosemount 3308 Wireless Level Transmitters

Heat exchanger insight



Feature

- In-depth monitoring of shell and tube heat exchangers
- Provides relevant time heat exchanger status and alerts (fouling, heat duty, etc.)
- Pre-built algorithms based on decades of process experience and industry vetted analytics
- Predictive diagnostics and alert weights allows prioritization of heat exchanger maintenance

Calculated insights

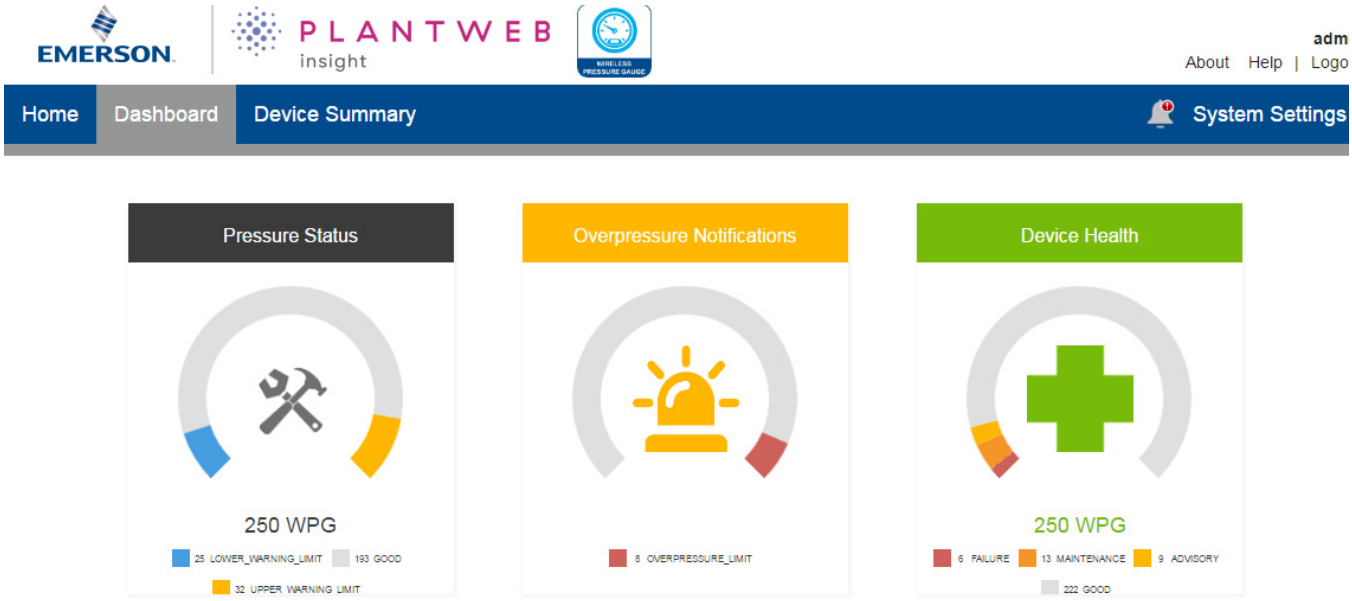
- Heat duty
- Fouling
- Process variable thresholds based on baseline capture
- Heat exchanger index
- Abnormal situation awareness in the form of alerts

HEAT EXCHANGER

Related products

- Emerson 1410/1420 Wireless Gateway
- Rosemount Wireless Temperature Transmitters
- Rosemount Temperature Sensors
- Rosemount 3051SFC DP
- Rosemount 3051S DP Wireless Differential Pressure Transmitter

Wireless pressure gauge insight



Features

- "Know before you go" insights into the Rosemount Wireless Pressure Gauge
- Provides relevant time pressure status of all wireless pressure gauges
- Manually configure thresholds for alerts
- Manage maintenance with device health indicators

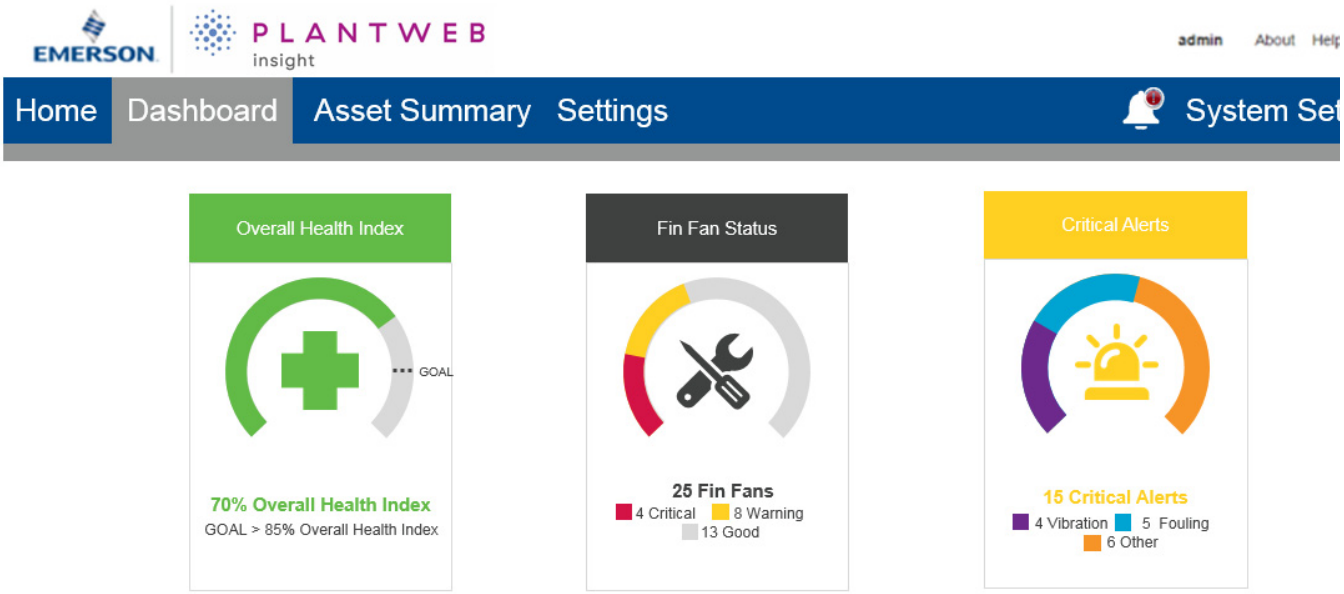
Calculated insights

- Pressure status
  - High pressure warning
  - Low pressure warning
- Overpressure notifications
- Device health

Related products

- Emerson 1410/1420 Wireless Gateway

Air cooled heat exchanger insight



Features

- In-depth monitoring of air cooled heat exchangers
- Provides real-time air cooled heat exchanger status, health and alerts (fouling, vibration, etc.)
- Pre-built algorithms based on decades of process experience and industry vetted analytics
- Predictive diagnostics and alert weights allows prioritization of maintenance

Calculated insights

- Vibration monitoring
- Fouling
- Louver/pitch defect
- Process variable thresholds based on baseline capture
- Air cooled heat exchanger health index
- Abnormal situation awareness in the form of alerts

Related products

- Emerson 1410/1420 Wireless Gateway
- Rosemount Wireless Temperature Transmitters
- Rosemount Temperature Sensors
- AMS 9420 Wireless Vibration Transmitters
- Fisher™ 4320 Wireless Position Monitor

Communication specifications

Modbus® TCP/IP

- Plantweb Insight contains a Modbus TCP interface. Functions, registers and tags are clearly defined within Plantweb Insight.

HART-IP™ client

- Plantweb Insight acts as a HART-IP client for polling information from HART-IP sources such as Emerson 1410/1420 Gateways.

OPC UA client

- Plantweb Insight contains an OPC UA client for accessing information from OPC UA servers.

Ordering information

Table 1. Emerson Plantweb Insight Ordering Information

The starred offerings (★) represent the most common options and should be selected for best delivery. The non-starred offerings are subject to additional delivery lead time.

Model	Product description	
7001X	Plantweb Insight	★
Installation type		
V[1]	Virtual machine	★
Number of networks[2]		
002	20 Gateways	★
010	100 Gateways	★
Applications		
ST	Steam trap	★
PU	Pump	★
HE	Heat exchanger	★
WP	Wireless pressure gauge	★
AC	Air cooled heat exchanger	★
Subscription support		
WR3	3-year service and support, including application updates	★
WR5	5-year service and support, including application updates	★
Typical model number: 7001X V 002 ST PU WR3		

1. *Number of Networks* must be selected.
2. Only applicable to virtual machine installation type.

Specifications

System requirements

Host operating system

Virtualization software

- VMware Workstation Pro™/Player™ 10 or higher (requirements can be found here)

OR

- VMware vSphere® 5.5 or higher (requirements can be found here)

Guest operating system

- Processors = 2
- Memory = 1GB RAM minimum
- Hard drive = 20GB of free space

Application

Browsers (recent versions supported)

- Chrome™ browser
- Mozilla Firefox®
- Safari®
- Microsoft® Windows™ Edge
- Microsoft Internet Explorer™

Other requirements

A DVD drive is required for installations.

Communication protocols

- Modbus TCP/IP
- HART-IP
- OPC UA client

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measurement instruments

Our offering:

	Pressure Measurement		Level Measurement
	Temperature Measurement		Flow Measurement
	Marine Measurement & Analytical		Gas Analysis
	Liquid Analysis		Flame and Gas Detection
	Tank Gauging		Wireless Infrastructure
	Acoustic & Discrete	HIGH ACCURACY measurement instruments	

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